Allotment Assessment and Evaluation Report for New Mexico Standards and Guidelines for Public Land Health Sagebrush Islands (#936) – June 18, 2010

Permittee		<u>Authorization Number</u> 3001226		
Livestock Use	Preference AUMs	Allotment Active Suspended 00936 12 0		
	Period of Use /	Allotment Number / Kind Season of Use		
	Kind of livestock	Sagebrush Islands 1 Cattle 03/01 – 02/28		
	Percent Public Land	AUMs are authorized at 100% public land		
Allotment Profile	Physical Description	Allotment 936 is located approximately 7 miles west of Cebolla, in Rio Arriba County, New Mexico. Elevation on this allotment is roughly between 7,100 and 7,500 feet. Landforms on the allotment include; uplands, arroyos and hills. Two soil types are identified within the BLM lands in this allotment;		
		Berryman-Ruson association, 1 to 8 percent slopes. The soil consists of silt loams, with rooting depths over 60 inches. Parent materials of alluvium derived from limestone and shale comprise this soil. Hazards for erosion are moderate. Average annual precipitation ranges between 14 and 16 inches. Vegetation is characterized by western wheat, squirreltail, blue grama, alkali sacaton and sagebrush.		
		Calendar gravelly loam, 5 to 35 percent slopes. The soil consists of loams, with rooting depths around 40 inches. Parent materials of alluvium from shale comprise this soil. Average annual precipitation ranges between 14 and 17 inches. Hazards for erosion are moderate. Vegetation is characterized by pinyon, juniper, oak, june grass, muttongrass and sagebrush.		
	Land Status	BLM State Private 0		
	Acreage Management Objectives	The allotment is under a 'Custodial' ('C') management category. 'C' category allotments have evidence of a "not apparent" to "upward" long term trend, have no significant resource conflicts and have a low potential for improvement in vegetative production.		
	Key Forage Species	blue grama, western wheatgrass, squirreltail, junegrass		
a	Grazing System	Rotational		
Current Conditions / Management	Actual Use	AUMs Year 12 2010 12 2009 12 2008 12 2007 12 2006		

	12 2005	
	12 2004	
	12 2003	
	12 2002 12 2001	
Utilization	Due to the lack of staff utilization studies	have not been
Othization	conducted. During the assessment visit it	
	the allotment was receiving slight to mode	
	utilization.	rate amounts of
Climate	The past water year (Oct. 1, 2009 – Sept. 1	30, 2010) the average
Cimate	temperature has been near average (0 to 1	_
	above average) and precipitation has been	_
	average (0 to 3 inches). The winter was w	•
	above normal) and was cooler (2 - 3 degree	
	average). The spring was drier, but cooler	
	below normal and 0 - 1 degrees Fahrenhei	•
	respectively) This should provide for near	_
	for cool season plants. The summer was w	
	above normal) and warmer (2 - 3 degrees	
	should provide near normal growth for wa	
	8-1 · · · · · · · · · · · · · · · · · · ·	r
	Global climate change resulting from incr	easing atmospheric
	CO ₂ levels may accelerate rates of plant e	
	shifts in ecosystem structure (species dive	
	We anticipate that our monitoring efforts	- ·
	shifts allowing for management modificat	_
	range impacts resulting from global clima	te change.
Trend	No long term trend plots had been establish	shed. During the
	evaluation process a plot was established.	Full findings are
	located in the Taos Field Office in the allo	tment file, but are
	summarized below.	
	Plot 1	2010
	Soil Surface	Ground Cover (%)
	Bare Ground	47
	cryptogams	1
	gravel	6
	rock	1
	litter	32
		11
	BOGR – blue grama	
	ARTR – sagebrush	1
	HYRI - pingue	1
	Species Composition	Composition (%)
	ARTR – sagebrush	27
	ELEL - squirreltail	6
	PSSM – western wheatgrass	1
	GUSA - snakeweed	4
	HENE – New Mexico Feathergrass	5
	HECO – needle and thread	1
	needle and thread	-

			BOGR – blue grama	38	
				3	-
			Unknown daisy		-
			CHMA – prostrate spurge	3	-
			JUMO – juniper	9	
			PIED – piñon	1	
			PLJA - galleta	1	
			PSSM – western wheatgrass	1	
	Riparian		o riparian areas within this allo		
	Wildlife	elk, bear, botturkey vulturallotment is Deer and ellibetween decensure that	ome ranges in the allotment included becat, fox, coyote, small mammare, songbirds, and a variety of important winter range for both k are grazers; however there is er and cattle. Best management forage production within this and livestable on a systemed basis.	nals, bats, raptors, insects. The h elk and deer. little dietary overla t practices would rea can support both	ар
	Threatened and		I livestock on a sustained basis. ined that there are no federally		<u>. </u>
	Endangered Species	endangered There is no the USFWS	species likely to be found in the designated critical habitat for a within the allotment. us species that are likely to be formal.	e subject allotment ny species listed by	t.
		_	seasonally) include bald eagle a		vk.
Findings / Rationale for the New Mexico Standards for Public Land Health		A Rangelan 18, 2010. The 1734-6 "Interest actual matrices are site evaluation three differences and Site of Integrity. The multiplying descriptions level. Departs light to mo and extreme stability we would be 50 or what is estimated and Site of Three indicates are significant. The sindicate of Soil and Site of Three indicates are significant. The sindicate of Soil and Site of Three indicates are significant.	This evaluation matrix was this evaluation matrix is from Terpreting Indicators of Rangela fix forms are available within the summation of the information gion. Within the Rangeland Heatent categories of indicators. The Stability, Hydrologic Function the percent of indicator score was an assigned value for departure street areas by the number at turn scores are categorized as: and the second score of the percent of the percent of the percent of indicator score was an assigned value for departure street areas by the number at turn scores are categorized as: and the percent of the perce	Secompleted on June Technical Reference and Health." The end allotment file. It is athered by the onalth Attributes are the categories included and Biotic as created by the from site of indicators at the none to slight = 5, the error and France of Soil/Site and Soil/S	ne e le; e con y,

I	1 101 1 36 1
	deemed Slight to Moderate.
	Rating: 84%
	Biotic Integrity
	Five indicators were deemed None to Slight and four were
	deemed Slight to Moderate.
	Rating: 91%
	Turing. 7170
	Overall Rating: 87%
Upland Standard	Upland ecological sites are in productive and sustainable condition within the capability of the site. Upland soils are stabilized and exhibit infiltration and permeability rates that are appropriate for the soil type, climate, and landform. The kind, amount and/or pattern of vegetation provides protection on a given site to minimize erosion and assist in meeting State and Tribal water quality standards.
	It was determined that this allotment is meeting the Upland Standard based on the above evaluation and information. Soils appear stable with erosion occurring as expected for the site.
Biotic Communities Standard	Ecological processes such as hydrologic cycle, nutrient cycle, and energy flow support productive and diverse native biotic communities, including special status, threatened, and endangered species appropriate to site and species.
	It was determined that this allotment is meeting the Biotic Communities Standard based on the above evaluation and information. It appears that all ecological processes are functioning as expected for the site.
Riparian	Riparian areas are in a productive, properly functioning and sustainable
Standard	condition, within the capability of that site.
	The Riparian Standard does not apply to this allotment, as no
	riparian areas are contained within the allotment.
Conclusion	All Standards are being met or do not apply within this
	allotment, therefore no Determination Document is warranted.
	Continued monitoring will help establish future trend. It is
	recommended that grazing be renewed for another 10 years
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	without any changes to permitted use on this allotment.

Consultation and Coordination

This Assessment and Evaluation Report has been sent or given to the affected permitee(s) / lessee(s), the interested publics and the following interdisciplinary team members for input and review:

Merril Dicks – Archeologist Scott Draney – Department of Game and Fish Greg Gustina – Fish Biologist Pam Herrera-Olivas – Wildlife Biologist Tami Torres – Outdoor Recreation Planner Derek Trauntvein – Rangeland Management Specialist Paul Williams – Archeologist Valerie Williams – Wildlife Biologist

This document was prepared by: Jacob Young – Rangeland Management Specialist

